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# Deceleration Warning System

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# **SENIOR DESIGN TECHNICAL REPORT**

for

DECELERATION WARNING SYSTEM

in partial fulfillment of the requirements

for the degree of

**BACHELOR OF SCIENCE**



presented to the

**ELECTRICAL ENGINEERING TECHNOLOGY FACULTY**

**INDIANA UNIVERSITY-PURDUE UNIVERSITY AT FORT WAYNE**

APRIL 27, 1983

by

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GRADE: \_\_\_\_\_

APPROVED: \_\_\_\_\_

## ABSTRACT

The Deceleration Warning System is a device designed to reduce the incidence of rear-end collisions. This is done by reducing the time lag between the start of a situation in front of a driver and the reaction to that situation by the driver.

The system is a self-contained unit designed as an add-on piece of equipment for a motorcycle. The unit will sample the deceleration force being experienced by the motorcycle, and will pulse two warning lights at a rate that is a function of the amount of deceleration. The output, seen by a following driver, will cause an immediate braking reaction that is appropriate for the situation ahead of him, due to conscious and subconscious reflex response patterns.

## CONTENTS

Abstract . . . . .	1
List of Illustrations . . . . .	iv
I Introduction . . . . .	1
II System Theory . . . . .	2
A. Critical Time Interval . . . . .	2
B. Perception and Reaction . . . . .	3
C. Reflex Responses . . . . .	6
D. Ideal Response Curve . . . . .	8
III System Development . . . . .	10
A. Design Criteria . . . . .	10
B. Deceleration Switching Array . . . . .	12
C. Switch Decoding Circuit . . . . .	14
D. Frequency Switching . . . . .	17
E. Output Driver Circuit . . . . .	20
IV System Evaluation . . . . .	21
A. Functional Analysis . . . . .	21
B. Packaging . . . . .	23
C. Project Costs . . . . .	24

V Conclusion . . . . .	25
VI Appendix . . . . .	26
A. System Schematic . . . . .	26
B. Circuit Board Diagram . . . . .	27
C. Mercury Switches . . . . .	28
VII Bibliography . . . . .	30

## LIST OF ILLUSTRATIONS

1. Critical Time Interval . . . . .	2
2. Ideal Response Curve . . . . .	9
3. Mercury Switch Positions . . . . .	12
4. Mercury Switch State Table . . . . .	13
5. Switch Decoding Truth Table . . . . .	14
6. Basic Decoding Circuit . . . . .	15
7. Non-floating Input Circuit . . . . .	16
8. Frequency Switching Circuit . . . . .	18
9. Output Driver Circuit . . . . .	20